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DATE: November 1, 2022

TO: Mike Gerding, LEED GA
Project Manager
Manns Woodward Studios, Inc. 10839 Philadelphia Road
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RE: Anne Arundel West County Swim Center
TRAFFIC IMPACT STUDY
Anne Arundel County, Maryland
Our Job No.: 2022-0424

At your request, The Traffic Group, Inc. has reviewed the proposed Anne Arundel West County Swim Center project and prepared this Traffic Impact Study to quantify projected demand at the site access point. A new 60,500-sq ft indoor swim facility is proposed to be developed on the north side of Disney Road within Provinces Park. It is important to recognize this site is being developed by Anne Arundel County's Department of Recreation and Parks. As a result, it is technically exempt from Adequate Public Facilities Ordinance (APFO) requirements.

This study will show that the site access intersection currently operates with an acceptable level of service during the morning, afternoon, and Saturday peak periods. When considering full buildout of this site, acceptable operations are projected to continue during typical peak periods without the need for additional traffic control measures.

To account for larger-scale competitions or meets that could occur on occasion at this facility, additional traffic control measures such as police direction should be considered to accommodate increased demand during those time periods. As larger numbers of vehicles could ingress or egress during a very short time period, delay could be significantly heavier with traditional stop control.

## Site Description

Provinces Park is located on both the north and south sides of Disney Road, east of MD 175 in Anne Arundel County. The park currently features several multi-purpose athletic fields and associated parking on the north side. Tennis courts are available on the south side. A map showing the general area can be found in Figure 1.

Access to the park is available via one point along Disney Road. An aerial photograph depicting the site access point can be found in Figure 2.

FIGURE 1 - LOCATION MAP FOR SITE


FIGURE 2 - AERIAL PHOTOGRAPH


Disney Road is maintained by Anne Arundel County. It extends for a distance of approximately 2 miles in the east/west direction from MD 175 (Annapolis Road) easterly to MD 174 (Reece Road). A short portion of the roadway continues to the east of the signalized intersection of MD 174 as Redbridge Drive into a residential community. The roadway is designated both as Disney Road and continuously as New Disney Road throughout its section.

In the vicinity of Provinces Park, Disney Road features one travel lane in each direction with a two-way left turn lane. There are no auxiliary right turn lanes along the length of the road. To the west of Old Mill Court, the two-way left turn lane is eliminated in favor of a striped shoulder on the north and south sides of the roadway. The shoulder then becomes unmarked.

Access to Provinces Park operates under stop control for the minor approaches. The site egress features single lane approaches. Figure 3 provides a detail of the existing lane use.

FIGURE 3 - EXISTING LANE USE


Sidewalk is currently available along both sides of Disney Road in the vicinity of Provinces Park. Crosswalks are also available spanning Disney Road on the west leg of the intersection to connect both the north and south portions of the park. The sidewalk provides connectivity to neighborhoods located to the east and west as well as to commercial destinations located along MD 175.

## Traffic Volumes

Intersection turning movement counts were collected on Wednesday, October 12 and Saturday, October 15, 2022, during the AM, PM, and Saturday midday peak periods. The volumes were collected through the use of Miovision cameras posted at the intersection. The peak hour volumes are summarized in Figure 4. Complete details on the 15 -minute traffic volumes can be found in Appendix A.

FIGURE 4 - 2022 EXISTING PEAK HOUR TRAFFIC VOLUMES


A review of the traffic volumes shows minimal park usage currently occurs during the AM peak period. During the 5:00-6:00 PM hour, approximately 142 vehicles entered the park presumably for afternoon sports practices. On Saturday, the midday peak period was found to occur between the hours of 10:30 and 11:30 AM. Significant traffic volumes entering and exiting the park were noted. Primarily, the traffic volumes on Saturday were oriented to and from the west. During the PM peak, the traffic volumes were distributed relatively similarly.

## Background Conditions

Anne Arundel County's Development Activity Maps were reviewed to determine if any unbuilt developments in the area will contribute future traffic to the intersection. A map showing developments can be found in Figure 5. As shown, Parkside Phase 1B (P2021-0034-00), which contains 35 townhouse units, is the only approved plan near this location that could impact the study intersection.

Parkside Phase 1B is located to the west of this site. The Institute of Transportation Engineers (ITE) Trip Generation ( $11^{\text {th }}$ Edition) was utilized to quantify the trips associated with the 35 -unit development during the AM, PM, and Saturday peak periods. Table 1 summarizes the equation for each time period. Applying the equations to this site results in the trip generation as detailed in Table 2. As shown, a total of 13 AM peak hour trips, 17 PM peak hour trips, and 28 Saturday peak hour trips are expected. The trips were distributed and assigned to the road network based on the relative location of this project to the subject site. Figure 6 details the background trip assignment. Adding the trips to the existing peak hour traffic volumes results in the background peak hour traffic volumes as shown in Figure 7.

FIGURE 5 - DEVELOPMENT ACTIVITY NEAR STUDY INTERSECTION


TABLE 1 - TRIP GENERATION FOR BACKGROUND DEVLOPMENT

| Formula/Rate | Directional Distribution |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | AM Peak |  | PM Peak |  | Mid. Sat. Peak |  |
|  | IN | OUT | IN | OUT | IN | OUT |
| Single-Family Attached (ITE-215, Units) |  |  |  |  |  |  |
| AM Peak Hour Trips $=0.52 \times$ Units - 5.70 | 31\% | 69\% | 57\% | 43\% | 48\% | 52\% |
| PM Peak Hour Trips $=0.60 \times$ Units - 3.93 |  |  |  |  |  |  |
| $\operatorname{Ln}($ Sat. Midday Peak Hour Trips) $=0.82 \times \operatorname{Ln}($ Units $)+0.43$ |  |  |  |  |  |  |

** Trip rates obtained from ITE Trip Generation Manual 11th Edition, 2021.

## TABLE 2 - TRIP GENERATION FOR BACKGROUND DEVELOPMENT

| Land Use | Size |  | AM Peak Hour |  |  | PM Peak Hour |  |  | Mid. Sat. Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | In | Out | Total | In | Out | Total | In | Out | Total |
| P2021-0034-00, Parkside Phase 1B (Sub Div\# S2005-008) |  |  |  |  |  |  |  |  |  |  |  |
| Townhouses | 35 | units | 4 | 9 | 13 | 10 | 7 | 17 | 13 | 15 | 28 |

FIGURE 6 - TRIP ASSIGNMENT FOR BACKGROUND DEVELOPMENT


FIGURE 7 - BACKGROUND PEAK HOUR TRAFFIC VOLUMES


## Proposed Development

The proposed 60,500-sq ft Anne Arundel West County Swim Center is located on the north side of Disney Road within Provinces Park. A total of 260 parking spaces will be paved with an additional 59 parking spaces available within an overflow lot. The existing athletic fields located on site will remain. Additional pedestrian connectivity on site is also proposed. Approaching Disney Road, the site access point is proposed to be enhanced with a separate right turn lane exiting the site to facilitate site egress. A concept plan showing the proposed development can be found in Figure 8.

## Site Trip Generation/Distribution

Since this is a unique use, information was obtained from Anne Arundel County representatives regarding programs and attendance for existing swim centers located within the county. The data was utilized to project peak hour trips for this facility. The following programs are anticipated to occur during the AM peak period during the school year:
$>$ Water Aerobics
$>$ Drop In Swim
> Morning Masters
> Arundel Swim Club (ASC)
$>$ Drownproofing

During the PM peak period, the following activities are anticipated:
$>$ Drop In Swim
$>$ Dance
$>$ Swim Lessons
> Water Aerobics
$>$ Zumba
> High School Swim Team
$\Rightarrow$ ASC

On Saturday, the following uses are expected:

```
> ASC
> Water Park Sessions
Drop In Swim
> Dance
```



Based on the average attendance count for periods extending from 7-9 AM, 4-6 PM, and from 11 AM - 2PM on Saturday, the peak hour trips were projected. It is important to recognize it is anticipated that the high school swim team component will utilize buses, therefore, the trips associated with the swim team are relatively limited. As shown in Table 3, a total of 100 AM peak hour trips, 190 PM peak hour trips, and 124 Saturday peak hour trips are expected for the new West County Swim Center. Details on the existing land uses that were utilized to project these volumes can be found in Appendix B.

## TABLE 3 - TRIP GENERATION FOR SITE

| Land Use | Size |  | AM Peak Hour |  |  | PM Peak Hour |  |  | Mid. Sat. Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | In | Out | Total | In | Out | Total | In | Out | Total |
| Swim Center |  |  |  |  |  |  |  |  |  |  |  |
| Swim Center | 1 | facility | 75 | 25 | 100 | 114 | 76 | 190 | 62 | 62 | 124 |

Based on current traffic patterns and existing arrival and departures from Provinces Park, the site trips were distributed and assigned to the road network. Figure 9 contains the trip assignment. Adding the site trips to the background peak hour traffic volumes results in the total peak hour traffic volumes as shown in Figure 10.

FIGURE 9 - TRIP ASSIGNMENT FOR SITE


FIGURE 10 - TOTAL PEAK HOUR TRAFFIC VOLUMES


## Intersection Capacity Analysis

Intersection capacity analysis was undertaken for the study intersection using Highway Capacity Manual (HCM) methodology. The HCM quantifies level of service at an intersection and for individual approaches based on existing and calculated delay. A letter grade ranging from $A$ to $F$ is then assigned to each approach where Level of Service "A" represents no delay and Level of Service " $F$ " accounts for 50 seconds or more of delay for the minor approach. Table 4 summarizes the level of service delay thresholds.

## TABLE 4 - LEVEL OF SERVICE CRITERIA

Level-of-Service Criteria for Unsignalized Intersections

| Level of Service | Control Delay (seconds/vehicle) |
| :---: | :---: |
| A | $0-10$ |
| B | $>10-15$ |
| C | $>15-25$ |
| D | $>25-35$ |
| E | $>35-50$ |
| F | $>50$ |

The HCM results are summarized in Table 5. Complete capacity worksheets can be found in Appendix C.

## TABLE 5 - RESULTS OF INTERSECTION CAPACITY ANALYSIS

| Intersection | HCM - LOS/Delay (seconds) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Control Type | Existing Peak Hour |  |  | Back'd Peak Hour |  |  | Total Peak Hour |  |  |
|  |  | AM | PM | SAT | AM | PM | SAT | AM | PM | SAT |
| Disney Rd at Park Access | Two Way |  |  |  |  |  |  |  |  |  |
| EB/Left - Disney Rd | Stop | A/8.7 | A/8.1 | A/8.1 | A/8.7 | A/8.1 | A/8.1 | A/8.8 | A/8.5 | A/8.3 |
| WB/Left - Disney Rd |  | A/7.4 | A/8.1 | A/7.6 | A/7.4 | A/8.1 | A/7.6 | A/7.4 | A/8.1 | A/7.6 |
| NB/LTR - Park Access |  | --- | B/10.5 | B/11.7 | --- | B/10.5 | B/11.7 | --- | B/10.5 | B/12.8 |
| SB/LTR - Site Access |  | B/13.2 | B/12.5 | B/13.1 | B/13.2 | B/12.6 | B/13.2 | B/13.4 | C/15.1 | C/15.9 |
| $w / S B$ improvement $L+T R$ |  | --- | --- | --- | --- | --- | --- | B/13.0 | B/13.8 | B/12.9 |

A review of Table 5 shows that under existing conditions, the eastbound and westbound movements along Disney Road turning left into the site operate at Level of Service "A." The southbound park access currently operates at Level of Service "B." Minimal changes are expected for the background condition as the volumes remain relatively unchanged.

For the total peak period, delay increases slightly during the PM and Saturday peak periods where a Level of Service "C" is projected for the site access points. The delay corresponds with an average wait time of less than 16 seconds during typical operations.

To enhance traffic operations, a separate right turn lane is proposed for the site access. HCM analysis shows a slight improvement to Level of Service "B" with its implementation.

It is important to recognize these calculations are based on typical operations at the West County Swim Center. When a swim meet or competition occurs that significantly increases traffic volumes to the site, additional delay could be incurred. It is recommended that additional traffic control measures such as police direction be provided to safely and efficiently control traffic during these event times.

## Summary and Conclusions

Traffic along Disney Road is relatively light. An existing two-way left turn lane will facilitate traffic volumes entering the site in the future. Traffic delay is shown to be minimal during the AM, PM, and Saturday peak periods with the addition of the West County Swim Center at the site access point.

Since this site is being developed by Anne Arundel County, an Adequate Public Facilities Ordinance (APFO) Traffic Impact Study is not required. This analysis, however, was prepared to measure impact at the existing site access point. Since acceptable levels of service are projected in the future, additional improvements are not needed from a capacity standpoint. The addition of a separate right turn lane along the southbound site access approach is recommended to enhance traffic operations.


Proiessional Certificatton - I heroby certify that these documents were prepared or approved by me, end that I sim a duly licensed profedstonal engineer under the laws of the State of Maryland. ucenservi: 29931 expration catere $1 / 8 / 2024$

CRW:amr
(F:\2022\2022-0424_Anne Arundel West County Swim Center\DOCS\REPORTS\TIS Memo Rpt_Gerding.docx)

## APPENDIX A

Intersection Turning Movement Counts

| Intersection of: Disney Road <br> and: Provinces Park Access <br> Location: Anne Arundel County, Maryland |  |  |  |  |  |  |  |  |  | Counted by: VCU <br> Date: October 12, 2022 <br> Weather: Sunny/Warm <br> Entered by: SN |  |  |  |  | Wednesday <br> Star Rating: 4 |  |  |  |  | $\begin{aligned} & \text { The } \\ & \text { Traffic } \\ & \text { Group } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TIME | on: <br> RIGHT | TRAFF Provinc <br> THRU | FROM Park LEFT | ORTH cess U-TN | total | on: <br> RIGHT | TRAFF Parking <br> THRU | $\qquad$ | $\begin{aligned} & \text { SOUTH } \\ & \text { U-TN } \\ & \hline \end{aligned}$ | total | on: <br> RIGHT | TRAF Disney THRU | C FROM oad LEFT | EAST U-TN | total | on: <br> RIGHT | TRAF Disney THRU | C FRO oad LEFT | WEST U-TN | total | $\begin{gathered} \text { TOTAL } \\ \text { N + S } \\ + \\ \text { E + W } \\ \hline \end{gathered}$ |
| AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7:00-7:15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 0 | 87 | 0 | 12 | 0 | 0 | 12 | 100 |
| 7:15-7:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 111 | 1 | 0 | 112 | 0 | 19 | 0 | 0 | 19 | 131 |
| 7:30-7:45 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 117 | 0 | 0 | 119 | 0 | 15 | 2 | 0 | 17 | 137 |
| 7:45-8:00 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 9 | 116 | 0 | 0 | 125 | 1 | 37 | 0 | 0 | 38 | 167 |
| 8:00-8:15 | 2 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 106 | 0 | 0 | 107 | 0 | 32 | 5 | 0 | 37 | 148 |
| 8:15-8:30 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 89 | 0 | 0 | 89 | 0 | 39 | 1 | 0 | 40 | 131 |
| 8:30-8:45 | 4 | 0 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 2 | 84 | 0 | 0 | 86 | 1 | 30 | 2 | 0 | 33 | 125 |
| 8:45-9:00 | 1 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 59 | 0 | 0 | 62 | 0 | 30 | 0 | 0 | 30 | 97 |
| 2 Hr Totals | 9 | 0 | 13 | 0 | 22 | 1 | 0 | 0 | 0 | 1 | 17 | 769 | 1 | 0 | 787 | 2 | 214 | 10 | 0 | 226 | 1036 |
| 1 Hr Totals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7:00-8:00 | 2 | 0 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 11 | 431 | 1 | 0 | 443 | 1 | 83 | 2 | 0 | 86 | 535 |
| 7:15-8:15 | 3 | 0 | 6 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 12 | 450 | 1 | 0 | 463 | 1 | 103 | 7 | 0 | 111 | 583 |
| 7:30-8:30 | 3 | 0 | 7 | 0 | 10 | 1 | 0 | 0 | 0 | 1 | 12 | 428 | 0 | 0 | 440 | 1 | 123 | 8 | 0 | 132 | 583 |
| 7:45-8:45 | 7 | 0 | 8 | 0 | 15 | 1 | 0 | 0 | 0 | 1 | 12 | 395 | 0 | 0 | 407 | 2 | 138 | 8 | 0 | 148 | 571 |
| $\begin{aligned} & \text { 8:00-9:00 } \\ & \text { PEAK HOUR } \end{aligned}$ | 7 | 0 | 9 | 0 | 16 | 1 | 0 | 0 | 0 | 1 | 6 | 338 | 0 | 0 | 344 | 1 | 131 | 8 | 0 | 140 | 501 |
| 7:15-8:15 | 3 | 0 | 6 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 12 | 450 | 1 | 0 | 463 | 1 | 103 | 7 | 0 | 111 | 583 |
| PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4:00-4:15 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 45 | 0 | 0 | 47 | 0 | 91 | 0 | 0 | 91 | 142 |
| 4:15-4:30 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 48 | 0 | 0 | 49 | 0 | 83 | 1 | 0 | 84 | 136 |
| 4:30-4:45 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 55 | 0 | 0 | 57 | 0 | 80 | 9 | 0 | 89 | 148 |
| 4:45-5:00 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 64 | 1 | 0 | 70 | 1 | 92 | 14 | 0 | 107 | 179 |
| 5:00-5:15 | 2 | 0 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 8 | 70 | 0 | 0 | 78 | 0 | 70 | 16 | 0 | 86 | 170 |
| 5:15-5:30 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 17 | 44 | 0 | 0 | 61 | 1 | 102 | 23 | 0 | 126 | 189 |
| 5:30-5:45 | 7 | 0 | 4 | 0 | 11 | 1 | 0 | 0 | 0 | 1 | 23 | 54 | 0 | 0 | 77 | 1 | 95 | 26 | 0 | 122 | 211 |
| 5:45-6:00 | 4 | 0 | 3 | 0 | 7 | 1 | 0 | 0 | 0 | 1 | 12 | 66 | 1 | 0 | 79 | 0 | 90 | 17 | 0 | 107 | 194 |
| 2 Hr Totals | 18 | 0 | 18 | 0 | 36 | 2 | 0 | 1 | 0 | 3 | 70 | 446 | 2 | 0 | 518 | 3 | 703 | 106 | 0 | 812 | 1369 |
| 1 Hr Totals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4:00-5:00 | 4 | 0 | 6 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 10 | 212 | 1 | 0 | 223 | 1 | 346 | 24 | 0 | 371 | 605 |
| 4:15-5:15 | 5 | 0 | 7 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 16 | 237 | 1 | 0 | 254 | 1 | 325 | 40 | 0 | 366 | 633 |
| 4:30-5:30 | 4 | 0 | 7 | 0 | 11 | 0 | 0 | 1 | 0 | 1 | 32 | 233 | 1 | 0 | 266 | 2 | 344 | 62 | 0 | 408 | 686 |
| 4:45-5:45 | 11 | 0 | 10 | 0 | 21 | 1 | 0 | 0 | 0 | 1 | 53 | 232 | 1 | 0 | 286 | 3 | 359 | 79 | 0 | 441 | 749 |
| $\begin{gathered} 5: 00-6: 00 \\ \text { PEAK HOUR } \\ \hline \end{gathered}$ | 14 | 0 | 12 | 0 | 26 | 2 | 0 | 0 | 0 | 2 | 60 | 234 | 1 | 0 | 295 | 2 | 357 | 82 | 0 | 441 | 764 |
| 5:00-6:00 | 14 | 0 | 12 | 0 | 26 | 2 | 0 | 0 | 0 | 2 | 60 | 234 | 1 | 0 | 295 | 2 | 357 | 82 | 0 | 441 | 764 |


| Intersection of: Disney Road <br> and: Provinces Park Access <br> Location: Anne Arundel County, Maryland |  |  |  |  |  |  |  |  |  | Counted by: VCU <br> Date: October 12, 2022 <br> Weather: Sunny/Warm <br> Entered by: SN |  |  |  |  | Wednesday <br> Star Rating: 4 |  |  |  |  | $\begin{aligned} & \text { The } \\ & \text { Traffic } \\ & \text { Group } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TIME | on: RIGHT | TRAFF Provinc <br> THRU | FROM Park A <br> LEFT | NORTH <br> cess <br> U-TN | total | on: RIGHT | $\begin{gathered} \text { TRAFF } \\ \text { Parking } \\ \text { THRU } \\ \hline \end{gathered}$ | FROM ot <br> LEFT | OUTH U-TN | total | on: <br> RIGHT | $\begin{gathered} \text { TRAFF } \\ \text { Disney R } \\ \text { THRU } \\ \hline \end{gathered}$ | C FRO <br> oad <br> LEFT | EAST U-TN | TOTAL | on: <br> RIGHT | TRAF Disney <br> THRU | FROM <br> ad <br> LEFT | NEST U-TN | total | $\begin{array}{\|c\|} \hline \text { TOTAL } \\ \text { N + S } \\ + \\ \text { + }+\mathrm{W} \\ \hline \end{array}$ |
| $\begin{gathered} \text { AM } \\ 7: 00-7: 15 \end{gathered}$ | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 0 | 87 | 0 | 8 | 0 | 0 | 8 | 96 |
| 7:15-7:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 1 | 0 | 111 | 0 | 17 | 0 | 0 | 17 | 128 |
| 7:30-7:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 117 | 0 | 0 | 119 | 0 | 14 | 1 | 0 | 15 | 134 |
| 7:45-8:00 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 9 | 113 | 0 | 0 | 122 | 1 | 36 | 0 | 0 | 37 | 163 |
| 8:00-8:15 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 104 | 0 | 0 | 105 | 0 | 31 | 5 | 0 | 36 | 144 |
| 8:15-8:30 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 88 | 0 | 0 | 88 | 0 | 34 | 1 | 0 | 35 | 125 |
| 8:30-8:45 | 4 | 0 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 2 | 81 | 0 | 0 | 83 | 1 | 29 | 2 | 0 | 32 | 121 |
| 8:45-9:00 | 1 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 59 | 0 | 0 | 62 | 0 | 29 | 0 | 0 | 29 | 96 |
| 2 Hr Totals | 8 | 0 | 12 | 0 | 20 | 1 | 0 | 0 | 0 | 1 | 17 | 759 | 1 | 0 | 777 | 2 | 198 | 9 | 0 | 209 | 1007 |
| 1 Hr Totals 7:00-8:00 | 2 | 0 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 11 | 427 | 1 | 0 | 439 | 1 | 75 | 1 | 0 | 77 | 521 |
| 7:15-8:15 | 2 | 0 | 5 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 12 | 444 | 1 | 0 | 457 | 1 | 98 | 6 | 0 | 105 | 569 |
| 7:30-8:30 | 2 | 0 | 6 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 12 | 422 | 0 | 0 | 434 | 1 | 115 | 7 | 0 | 123 | 566 |
| 7:45-8:45 | 6 | 0 | 8 | 0 | 14 | 1 | 0 | 0 | 0 | 1 | 12 | 386 | 0 | 0 | 398 | 2 | 130 | 8 | 0 | 140 | 553 |
| 8:00-9:00 <br> PEAK HOUR | 6 | 0 | 9 | 0 | 15 | 1 | 0 | 0 | 0 | 1 | 6 | 332 | 0 | 0 | 338 | 1 | 123 | 8 | 0 | 132 | 486 |
| 7:15-8:15 | 2 | 0 | 5 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 12 | 444 | 1 | 0 | 457 | 1 | 98 | 6 | 0 | 105 | 569 |
| PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4:00-4:15 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 45 | 0 | 0 | 47 | 0 | 90 | 0 | 0 | 90 | 141 |
| 4:15-4:30 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 48 | 0 | 0 | 49 | 0 | 80 | 1 | 0 | 81 | 133 |
| 4:30-4:45 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 55 | 0 | 0 | 57 | 0 | 80 | 9 | 0 | 89 | 148 |
| 4:45-5:00 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 | 63 | 1 | 0 | 69 | 1 | 90 | 14 | 0 | 105 | 176 |
| 5:00-5:15 | 2 | 0 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 8 | 69 | 0 | 0 | 77 | 0 | 70 | 16 | 0 | 86 | 169 |
| 5:15-5:30 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 17 | 44 | 0 | 0 | 61 | 1 | 102 | 23 | 0 | 126 | 189 |
| 5:30-5:45 | 7 | 0 | 4 | 0 | 11 | 1 | 0 | 0 | 0 | 1 | 23 | 53 | 0 | 0 | 76 | 1 | 95 | 26 | 0 | 122 | 210 |
| 5:45-6:00 | 4 | 0 | 3 | 0 | 7 | 1 | 0 | 0 | 0 | 1 | 12 | 66 | 1 | 0 | 79 | 0 | 90 | 17 | 0 | 107 | 194 |
| 2 Hr Totals | 18 | 0 | 18 | 0 | 36 | 2 | 0 | 1 | 0 | 3 | 70 | 443 | 2 | 0 | 515 | 3 | 697 | 106 | 0 | 806 | 1360 |
| 1 Hr Totals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4:00-5:00 | 4 | 0 | 6 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 10 | 211 | 1 | 0 | 222 | 1 | 340 | 24 | 0 | 365 | 598 |
| 4:15-5:15 | 5 | 0 | 7 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 16 | 235 | 1 | 0 | 252 | 1 | 320 | 40 | 0 | 361 | 626 |
| 4:30-5:30 | 4 | 0 | 7 | 0 | 11 | 0 | 0 | 1 | 0 | 1 | 32 | 231 | 1 | 0 | 264 | 2 | 342 | 62 | 0 | 406 | 682 |
| 4:45-5:45 | 11 | 0 | 10 | 0 | 21 | 1 | 0 | 0 | 0 | 1 | 53 | 229 | 1 | 0 | 283 | 3 | 357 | 79 | 0 | 439 | 744 |
| $\begin{gathered} \text { 5:00-6:00 } \\ \text { PEAK HOUR } \\ \hline \end{gathered}$ | 14 | 0 | 12 | 0 | 26 | 2 | 0 | 0 | 0 | 2 | 60 | 232 | 1 | 0 | 293 | 2 | 357 | 82 | 0 | 441 | 762 |
| 5:00-6:00 | 14 | 0 | 12 | 0 | 26 | 2 | 0 | 0 | 0 | 2 | 60 | 232 | 1 | 0 | 293 | 2 | 357 | 82 | 0 | 441 | 762 |


| Intersection of: Disney Road <br> and: Provinces Park Access <br> Location: Anne Arundel County, Maryland |  |  |  |  |  |  |  |  |  | Counted by: VCU <br> Date: October 12, 2022 <br> Weather: Sunny/Warm <br> Entered by: SN |  |  |  |  | TOTAL | Wednesday <br> Star Rating: 4 |  |  |  | The <br> Traffic <br> Group |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TIME | on: <br> RIGHT | TRAFF Provinc THRU | FROM Park LEFT | ORTH cess U-TN | total | on: <br> RIGHT | TRAFF Parking THRU | FROM ot LEFT | OUTH <br> U-TN | total | on: <br> RIGHT | TRAF Disney THRU | C FROM oad <br> LEFT |  |  | on: RIGHT | TRAF Disney THRU | C FROI Road LEFT | $\begin{aligned} & \text { WEST } \\ & \text { U-TN } \end{aligned}$ | TOTAL | $\begin{gathered} \text { TOTAL } \\ \text { N + S } \\ + \\ \text { E + W } \end{gathered}$ |
| AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7:00-7:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 3 |
| 7:15-7:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 3 |
| 7:30-7:45 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 3 |
| 7:45-8:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 4 |
| 8:00-8:15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 4 |
| 8:15-8:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 6 |
| 8:30-8:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 4 |
| 8:45-9:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 2 Hr Totals | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 15 | 1 | 0 | 16 | 28 |
| 1 Hr Totals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7:00-8:00 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 7 | 1 | 0 | 8 | 13 |
| 7:15-8:15 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 5 | 1 | 0 | 6 | 14 |
| 7:30-8:30 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 8 | 1 | 0 | 9 | 17 |
| 7:45-8:45 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 8 | 0 | 0 | 8 | 18 |
| 8:00-9:00 <br> PEAK HOUR | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 8 | 0 | 0 | 8 | 15 |
| 7:15-8:15 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 5 | 1 | 0 | 6 | 14 |
| PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4:00-4:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 4:15-4:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 |
| 4:30-4:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45-5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 2 |
| 5:00-5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:15-5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30-5:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45-6:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 Hr Totals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 4 | 6 |
| 1 Hr Totals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4:00-5:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 5 |
| 4:15-5:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 3 | 5 |
| 4:30-5:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 3 |
| 4:45-5:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 3 |
| $5: 00-6: 00$ <br> PEAK HOUR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5:00-6:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{\begin{tabular}{l}
Intersection of: Disney Road \\
and: Provinces Park Access \\
Location: Anne Arundel County, Maryland
\end{tabular}} \& \multicolumn{5}{|l|}{\begin{tabular}{l}
Counted by: VCU \\
Date: October 12, 2022 \\
Weather: Sunny/Warm \\
Entered by: SN
\end{tabular}} \& \multicolumn{5}{|c|}{\begin{tabular}{l}
Wednesday \\
Star Rating: 4
\end{tabular}} \& \multicolumn{2}{|l|}{The Traffic Group} \\
\hline TIME \& on: RIGHT \& \begin{tabular}{l}
TRAFF Provinc \\
THRU
\end{tabular} \& FROM Park LEFT \& ORTH

U-TN \& total \& \begin{tabular}{l}
on: <br>
RIGHT

 \& TRAF Parking THRU \& 

FROM ot <br>
LEFT

 \& 

OUTH <br>
U-TN

 \& TOTAL \& 

on: <br>
RIGHT
\end{tabular} \& TRAF Disney THRU \& C FROI oad \& EAST

U-TN \& TOTAL \& \begin{tabular}{l}
on: <br>
RIGHT

 \& TRAF Disney THRU \& 

C FROM oad <br>
LEFT

\end{tabular} \& \[

$$
\begin{aligned}
& \text { WEST } \\
& \text { U-TN }
\end{aligned}
$$

\] \& total \& \[

$$
\begin{gathered}
\text { TOTAL } \\
\mathbf{N + S} \\
+ \\
\text { + }+\mathrm{W}
\end{gathered}
$$
\] <br>

\hline AM \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline 7:00-7:15 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 1 <br>
\hline 7:15-7:30 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 7:30-7:45 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 7:45-8:00 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 8:00-8:15 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 8:15-8:30 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 8:30-8:45 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 8:45-9:00 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 2 Hr Totals \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 1 <br>
\hline 1 Hr Totals \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline 7:00-8:00 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 1 <br>
\hline 7:15-8:15 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 7:30-8:30 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 7:45-8:45 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>

\hline $$
\begin{aligned}
& \text { 8:00-9:00 } \\
& \text { PEAK HOUR }
\end{aligned}
$$ \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>

\hline 7:15-8:15 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline PM \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline 4:00-4:15 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 4:15-4:30 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 1 <br>
\hline 4:30-4:45 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 4:45-5:00 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 1 <br>
\hline 5:00-5:15 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 5:15-5:30 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 5:30-5:45 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 <br>
\hline 5:45-6:00 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 2 Hr Totals \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 0 \& 2 \& 0 \& 0 \& 2 \& 3 <br>
\hline 1 Hr Totals \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline 4:00-5:00 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 2 \& 0 \& 0 \& 2 \& 2 <br>
\hline 4:15-5:15 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 2 \& 0 \& 0 \& 2 \& 2 <br>
\hline 4:30-5:30 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 1 <br>
\hline 4:45-5:45 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 0 \& 1 \& 0 \& 0 \& 1 \& 2 <br>

\hline $$
\begin{gathered}
5: 00-6: 00 \\
\text { PEAK HOUR } \\
\hline
\end{gathered}
$$ \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 <br>

\hline 5:00-6:00 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 \& 0 \& 0 \& 1 \& 0 \& 0 \& 0 \& 0 \& 0 \& 1 <br>
\hline
\end{tabular}

| PEDESTRIAN AND BICYCLE OBSERVATIONS - SUMMARY |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| Intersection of: Disney Road <br> and: Provinces Park Access <br> Location: Anne Arundel County, Maryland |  |  | ```Counted by: VCU Date: October 12, 2022 Weather: Sunny/Warm Entered by: SN``` | Wednesday <br> Star Rating: 4 |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |
| time | Pedestrians | Bicycles |  | Pedestrians | Bicycles |  |
| AM |  |  |  |  |  |
| 7:00-7:15 | 2 | 0 | 0 | 0 |  |
| 7:15-7:30 | 0 | 0 | 2 | 0 |  |
| 7:30-7:45 | 5 | 0 | 0 | 0 |  |
| 7:45-8:00 | 4 | 0 | 0 | 0 |  |
| 8:00-8:15 | 5 | 0 | 0 | 0 |  |
| 8:15-8:30 | 3 | 0 | 2 | 0 |  |
| 8:30-8:45 | 4 | 0 | 2 | 0 |  |
| 8:45-9:00 | 4 | 0 | 1 | 0 |  |
| TOTALS | 27 | 0 | 7 | 0 |  |
| PM |  |  |  |  |  |
| 4:00-4:15 | 0 | 0 | 5 | 0 |  |
| 4:15-4:30 | 0 | 0 | 7 | 0 |  |
| 4:30-4:45 | 1 | 0 | 1 | 0 |  |
| 4:45-5:00 | 5 | 0 | 1 | 0 |  |
| 5:00-5:15 | 4 | 0 | 1 | 1 |  |
| 5:15-5:30 | 1 | 0 | 0 | 0 |  |
| 5:30-5:45 | 5 | 0 | 1 | 1 |  |
| 5:45-6:00 | 5 | 1 | 3 | 2 |  |
| TOTALS | 21 | 1 | 19 | 4 |  |


|  | EAST LEG Disney Road |  | WEST LEG Disney Road |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Pedestrians | Bicycles | Pedestrians | Bicycles |
| AM |  |  |  |  |
| 7:00-7:15 | 0 | 0 | 0 | 0 |
| 7:15-7:30 | 0 | 0 | 0 | 0 |
| 7:30-7:45 | 0 | 0 | 0 | 0 |
| 7:45-8:00 | 0 | 0 | 0 | 0 |
| 8:00-8:15 | 0 | 0 | 0 | 0 |
| 8:15-8:30 | 0 | 0 | 0 | 0 |
| 8:30-8:45 | 0 | 0 | 1 | 0 |
| 8:45-9:00 | 0 | 0 | 0 | 0 |
| TOTALS | 0 | 0 | 1 | 0 |
| PM |  |  |  |  |
| 4:00-4:15 | 0 | 0 | 2 | 0 |
| 4:15-4:30 | 0 | 0 | 0 | 0 |
| 4:30-4:45 | 0 | 0 | 0 | 1 |
| 4:45-5:00 | 0 | 0 | 0 | 1 |
| 5:00-5:15 | 0 | 0 | 0 | 0 |
| 5:15-5:30 | 0 | 0 | 0 | 0 |
| 5:30-5:45 | 0 | 0 | 1 | 0 |
| 5:45-6:00 | 0 | 0 | 0 | 0 |
| TOTALS | 0 | 0 | 3 | 2 |



| CARS TURNING MOVEMENT COUNT - SUMMARY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Intersection of: Disney Road <br> and: Provinces Park Access <br> Location: Anne Arundel County, Maryland |  |  |  |  |  |  |  |  |  | Counted by: VCU <br> Date: October 15, 2022 <br> Weather: Sunny/Warm <br> Entered by: SN |  |  |  |  |  |  | Saturday <br> Star Rating: 4 |  |  | $\begin{aligned} & \text { The } \\ & \text { Traffic } \\ & \text { Group } \end{aligned}$ |  |
| TIME | on: <br> RIGHT | TRAFFIC Province THRU | FROM s Park <br> LEFT | NORTH ccess <br> U-TN | total | on: <br> RIGHT | TRAFFI Parking THRU | FROM ot <br> LEFT | OUTH <br> U-TN | total | on: <br> RIGHT | TRAFF Disney <br> THRU | C FRON <br> oad <br> LEFT | EAST U-TN | TOTAL | on: <br> RIGHT | TRAFF Disney THRU | C FRON <br> oad <br> LEFT | WEST U-TN | total | $\begin{gathered} \text { TOTAL } \\ \mathrm{N}+\mathrm{S} \\ + \\ \mathrm{E}+\mathrm{W} \end{gathered}$ |
| AM 10:00-10:15 | 31 | 0 | 21 | 0 | 52 | 1 | 0 | 1 | 0 | 2 | 8 | 55 | 1 | 0 | 64 | 1 | 38 | 22 | 0 | 61 | 179 |
| 10:15-10:30 | 9 | 0 | 4 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 5 | 60 | 1 | 0 | 66 | 1 | 31 | 10 | 0 | 42 | 121 |
| 10:30-10:45 | 40 | 0 | 15 | 0 | 55 | 1 | 0 | 0 | 0 | 1 | 8 | 66 | 1 | 0 | 75 | 0 | 44 | 26 | 0 | 70 | 201 |
| 10:45-11:00 | 36 | 0 | 7 | 0 | 43 | 3 | 0 | 0 | 0 | 3 | 11 | 64 | 1 | 0 | 76 | 0 | 53 | 22 | 0 | 75 | 197 |
| 11:00-11:15 | 25 | 1 | 4 | 0 | 30 | 1 | 0 | 1 | 0 | 2 | 11 | 47 | 0 | 0 | 58 | 3 | 39 | 30 | 1 | 73 | 163 |
| 11:15-11:30 | 42 | 2 | 18 | 0 | 62 | 0 | 1 | 1 | 0 | 2 | 5 | 64 | 2 | 0 | 71 | 2 | 43 | 24 | 0 | 69 | 204 |
| 11:30-11:45 | 15 | 0 | 2 | 0 | 17 | 0 | 0 | 1 | 0 | 1 | 6 | 73 | 0 | 2 | 81 | 1 | 42 | 12 | 0 | 55 | 154 |
| 11:45-12:00 | 20 | 0 | 6 | 0 | 26 | 0 | 0 | 2 | 0 | 2 | 5 | 57 | 0 | 0 | 62 | 0 | 37 | 14 | 0 | 51 | 141 |
| 12:00-12:15 | 19 | 0 | 7 | 0 | 26 | 0 | 0 | 1 | 0 | 1 | 3 | 61 | 0 | 0 | 64 | 1 | 60 | 3 | 0 | 64 | 155 |
| 12:15-12:30 | 38 | 0 | 9 | 0 | 47 | 2 | 0 | 5 | 0 | 7 | 2 | 59 | 2 | 0 | 63 | 1 | 56 | 1 | 0 | 58 | 175 |
| 12:30-12:45 | 45 | 0 | 14 | 0 | 59 | 0 | 2 | 2 | 0 | 4 | 1 | 44 | 1 | 0 | 46 | 2 | 50 | 4 | 0 | 56 | 165 |
| 12:45-1:00 | 10 | 0 | 0 | 0 | 10 | 1 | 0 | 0 | 0 | 1 | 1 | 46 | 1 | 0 | 48 | 3 | 58 | 1 | 0 | 62 | 121 |
| 1:00-1:15 | 18 | 0 | 5 | 0 | 23 | 1 | 0 | 2 | 0 | 3 | 1 | 67 | 0 | 0 | 68 | 0 | 38 | 9 | 0 | 47 | 141 |
| 1:15-1:30 | 11 | 0 | 5 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 5 | 50 | 0 | 0 | 55 | 0 | 72 | 5 | 0 | 77 | 148 |
| 1:30-1:45 | 3 | 0 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 4 | 55 | 0 | 0 | 59 | 1 | 62 | 19 | 0 | 82 | 146 |
| 1:45-2:00 | 2 | 0 | 1 | 0 | 3 | 2 | 0 | 0 | 0 | 2 | 6 | 67 | 0 | 0 | 73 | 0 | 57 | 10 | 0 | 67 | 145 |
| 4 Hr Totals | 364 | 3 | 119 | 0 | 486 | 13 | 3 | 16 | 0 | 32 | 82 | 935 | 10 | 2 | 1029 | 16 | 780 | 212 | 1 | 1009 | 2556 |
| 1 Hr Totals |  |  | 47 |  |  |  |  |  | 0 | $6$ |  | $245$ | 4 | $0$ | 281 |  | 166 | 80 | 0 |  |  |
| 10:00-11:00 | 116 | 0 | 47 | 0 | 163 | 5 | 0 | 1 | 0 | 6 | 32 | 245 | 4 | 0 | 281 | 2 | 166 | 80 | 0 | 248 | 698 |
| 10:15-11:15 | 110 | 1 | 30 | 0 | 141 | 5 | 0 | 1 | 0 | 6 | 35 | 237 | 3 | 0 | 275 | 4 | 167 | 88 | 1 | 260 | 682 |
| 10:30-11:30 | 143 | 3 | 44 | 0 | 190 | 5 | 1 | 2 | 0 | 8 | 35 | 241 | 4 | 0 | 280 | 5 | 179 | 102 | 1 | 287 | 765 |
| 10:45-11:45 | 118 | 3 | 31 | 0 | 152 | 4 | 1 | 3 | 0 | 8 | 33 | 248 | 3 | 2 | 286 | 6 | 177 | 88 | 1 | 272 | 718 |
| 11:00-12:00 | 102 | 3 | 30 | 0 | 135 | 1 | 1 | 5 | 0 | 7 | 27 | 241 | 2 | 2 | 272 | 6 | 161 | 80 | 1 | 248 | 662 |
| 11:15-12:15 | 96 | 2 | 33 | 0 | 131 | 0 | 1 | 5 | 0 | 6 | 19 | 255 | 2 | 2 | 278 | 4 | 182 | 53 | 0 | 239 | 654 |
| 11:30-12:30 | 92 | 0 | 24 | 0 | 116 | 2 | 0 | 9 | 0 | 11 | 16 | 250 | 2 | 2 | 270 | 3 | 195 | 30 | 0 | 228 | 625 |
| 11:45-12:45 | 122 | 0 | 36 | 0 | 158 | 2 | 2 | 10 | 0 | 14 | 11 | 221 | 3 | 0 | 235 | 4 | 203 | 22 | 0 | 229 | 636 |
| 12:00-1:00 | 112 | 0 | 30 | 0 | 142 | 3 | 2 | 8 | 0 | 13 | 7 | 210 | 4 | 0 | 221 | 7 | 224 | 9 | 0 | 240 | 616 |
| 12:15-1:15 | 111 | 0 | 28 | 0 | 139 | 4 | 2 | 9 | 0 | 15 | 5 | 216 | 4 | 0 | 225 | 6 | 202 | 15 | 0 | 223 | 602 |
| 12:30-1:30 | 84 | 0 | 24 | 0 | 108 | 2 | 2 | 4 | 0 | 8 | 8 | 207 | 2 | 0 | 217 | 5 | 218 | 19 | 0 | 242 | 575 |
| 12:45-1:45 | 42 | 0 | 11 | 0 | 53 | 3 | 0 | 2 | 0 | 5 | 11 | 218 | 1 | 0 | 230 | 4 | 230 | 34 | 0 | 268 | 556 |
| $\begin{gathered} 1: 00-2: 00 \\ \text { PEAK HOUR } \\ \hline \end{gathered}$ | 34 | 0 | 12 | 0 | 46 | 4 | 0 | 2 | 0 | 6 | 16 | 239 | 0 | 0 | 255 | 1 | 229 | 43 | 0 | 273 | 580 |
| 10:30-11:30 | 143 | 3 | 44 | 0 | 190 | 5 | 1 | 2 | 0 | 8 | 35 | 241 | 4 | 0 | 280 | 5 | 179 | 102 | 1 | 287 | 765 |


| MEDIUMS TURNING MOVEMENT COUNT - SUMMARY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Intersection of: Disney Road <br> and: Provinces Park Access <br> Location: Anne Arundel County, Maryland |  |  |  |  |  |  |  |  |  | Counted by: VCU <br> Date: October 15, 2022 <br> Weather: Sunny/Warm <br> Entered by: SN |  |  |  |  |  |  | Saturday <br> Star Rating: 4 |  |  | $\begin{aligned} & \text { The } \\ & \text { Traffic } \\ & \text { Group } \end{aligned}$ |  |
| TIME | on: <br> RIGHT | TRAFFIC Province THRU | FROM s Park LEFT | NORTH ccess <br> U-TN | total | on: RIGHT | TRAFFI Parking THRU | FROM ot <br> LEFT | SOUTH <br> U-TN | total | on: <br> RIGHT | TRAF Disney <br> THRU | FRO oad <br> LEFT | EAST U-TN | total | on: <br> RIGHT | TRAFF Disney <br> THRU | FROM oad LEFT | WEST U-TN | total | $\begin{gathered} \text { TOTAL } \\ \mathrm{N}+\mathrm{S} \\ + \\ \mathrm{E}+\mathrm{W} \end{gathered}$ |
| AM 10:00-10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 10:15-10:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:30-10:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:45-11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00-11:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15-11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30-11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45-12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00-12:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:15-12:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30-12:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:45-1:00 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:00-1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 3 |
| 1:15-1:30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1:30-1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 1:45-2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 Hr Totals | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 3 | 7 |
| 1 Hr Totals 10:00-11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $0$ | $0$ | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 10:15-11:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:30-11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:45-11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00-12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15-12:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30-12:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45-12:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00-1:00 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 12:15-1:15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 4 |
| 12:30-1:30 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 5 |
| 12:45-1:45 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 2 | 6 |
| $\begin{gathered} 1: 00-2: 00 \\ \text { PEAK HOUR } \\ \hline \end{gathered}$ | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 2 | 5 |
| 10:30-11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


| HEAVY TRUCKS TURNING MOVEMENT COUNT - SUMMARY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Intersection of: Disney Road <br> and: Provinces Park Access <br> Location: Anne Arundel County, Maryland |  |  |  |  |  |  |  |  |  | ```Counted by: VCU Date: October 15, }202 Weather: Sunny/Warm Entered by: SN``` |  |  |  |  |  |  | Saturday <br> Star Rating: 4 |  |  | The Traffic Group |  |
| TIME | on: <br> RIGHT | TRAFFI Provinc THRU | FROM s Park <br> LEFT | NORTH ccess <br> U-TN | TOTAL | on: <br> RIGHT | TRAFFIC Parking <br> THRU | FROM ot <br> LEFT | SOUTH <br> U-TN | TOTAL | on: <br> RIGHT | $\begin{gathered} \text { TRAFF } \\ \text { Disney F } \\ \text { THRU } \\ \hline \end{gathered}$ | FROI oad <br> LEFT | EAST U-TN | total | on: RIGHT | TRAF Disney <br> THRU | FRON oad <br> LEFT | WEST U-TN | total | $\begin{gathered} \text { TOTAL } \\ \mathrm{N}+\mathrm{S} \\ + \\ \mathrm{E}+\mathrm{W} \\ \hline \end{gathered}$ |
| AM 10:00-10:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:15-10:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:30-10:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:45-11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00-11:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15-11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30-11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45-12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00-12:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:15-12:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30-12:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:45-1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00-1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:15-1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:30-1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:45-2:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 Hr Totals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 Hr Totals |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10:00-11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:15-11:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:30-11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:45-11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00-12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:15-12:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30-12:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45-12:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00-1:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:15-1:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30-1:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:45-1:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\begin{gathered} 1: 00-2: 00 \\ \text { PEAK HOUR } \\ \hline \hline \end{gathered}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:30-11:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



Trip Generation

Trip Generation information

| AOSC facility | Summer <br> Programs | Average <br> Count | Fall-Spring <br> Programs | Average <br> Count | Yearly <br> Average |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Drop In Swim | 42 | Drop In Swim | 56 |  |
|  | Water Aerobics | 12 | Water Aerobics | 12 |  |
| Weekday (7am - 9am) | Morning Masters | 15 | Morning Masters | 15 |  |
|  |  |  | Drownproofing | 52 |  |
|  | Total | 69 |  | 135 | 102 |


| Weekday (4pm - 6pm) | Drop In Swim | 28 | Drop In Swim | 12 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | ASC | 132 | Water Aerobics | 10 |  |
|  | Swim Lessons | 12 | HS Swim Team | 114 |  |
|  |  |  | ASC | 132 |  |
|  | Total | 172 |  | Swim Lessons | 15 |
|  |  |  |  |  |  |


| Assume Bus Service will be |
| :--- |
| provided for the HS Swim team |
| and some senior students may |
| drive by themselves. 20 trips will |
| replace the head count of 114. |
| 1.00 Factor |$|$ IN | 190 | 114 |
| :---: | :---: |


|  | Drop In Swim | 40 | Drop In Swim | 52 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Saturday (11am - 2pm) | ASC | 114 | ASC | 114 |  |
|  | Total | 154 |  | 166 | 160 |


| 0.75 Factor | IN | OUT |
| :---: | :---: | :---: |
| 124 | 62 | 62 |

## APPENDIX C

Intersection Capacity Worksheets

## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Existing AM | Peak Hour Factor | 0.87 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  |  | LTR |  |
| Volume (veh/h) |  | 7 | 103 | 1 |  | 1 | 450 | 12 |  | 0 | 0 | 0 |  | 6 | 0 | 3 |
| Percent Heavy Vehicles (\%) |  | 14 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 17 | 0 | 33 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \\| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |

Critical and Follow-up Headways

| Base Critical Headway (sec) | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Critical Headway (sec) | 4.24 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.27 | 6.50 | 6.53 |
| Base Follow-Up Headway (sec) | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) | 2.33 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.65 | 4.00 | 3.60 |

Delay, Queue Length, and Level of Service


## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Existing PM | Peak Hour Factor | 0.91 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1 U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  |  | LTR |  |
| Volume (veh/h) |  | 82 | 357 | 2 |  | 1 | 234 | 60 |  | 0 | 0 | 2 |  | 12 | 0 | 14 |
| Percent Heavy Vehicles (\%) |  | 0 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 0 | 0 | 0 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \\| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |

Critical and Follow-up Headways

| Base Critical Headway (sec) | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Critical Headway (sec) | 4.10 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.10 | 6.50 | 6.20 |
| Base Follow-Up Headway (sec) | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) | 2.20 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.50 | 4.00 | 3.30 |

Delay, Queue Length, and Level of Service


## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Existing Sat | Peak Hour Factor | 0.94 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  |  | LTR |  |
| Volume (veh/h) |  | 103 | 179 | 5 |  | 4 | 241 | 35 |  | 2 | 1 | 5 |  | 44 | 3 | 143 |
| Percent Heavy Vehicles (\%) |  | 0 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 0 | 0 | 0 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \\| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |

Critical and Follow-up Headways

| Base Critical Headway (sec) | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Critical Headway (sec) | 4.10 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.10 | 6.50 | 6.20 |
| Base Follow-Up Headway (sec) | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) | 2.20 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.50 | 4.00 | 3.30 |

Delay, Queue Length, and Level of Service


## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Back'd AM | Peak Hour Factor | 0.87 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  |  | LTR |  |
| Volume (veh/h) |  | 7 | 104 | 1 |  | 1 | 450 | 12 |  | 0 | 0 | 0 |  | 6 | 0 | 3 |
| Percent Heavy Vehicles (\%) |  | 14 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 17 | 0 | 33 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \\| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |

Critical and Follow-up Headways

| Base Critical Headway (sec) | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Critical Headway (sec) | 4.24 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.27 | 6.50 | 6.53 |
| Base Follow-Up Headway (sec) | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) | 2.33 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.65 | 4.00 | 3.60 |

Delay, Queue Length, and Level of Service


## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Back'd PM | Peak Hour Factor | 0.91 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  |  | LTR |  |
| Volume (veh/h) |  | 82 | 358 | 2 |  | 1 | 235 | 60 |  | 0 | 0 | 2 |  | 12 | 0 | 14 |
| Percent Heavy Vehicles (\%) |  | 0 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 0 | 0 | 0 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |
| Critical and Follow-up Headways |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Base Critical Headway (sec) |  | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| Critical Headway (sec) |  | 4.10 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.10 | 6.50 | 6.20 |
| Base Follow-Up Headway (sec) |  | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) |  | 2.20 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.50 | 4.00 | 3.30 |

## Delay, Queue Length, and Level of Service



## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Back'd Sat | Peak Hour Factor | 0.94 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  |  | LTR |  |
| Volume (veh/h) |  | 103 | 181 | 5 |  | 4 | 242 | 35 |  | 2 | 1 | 5 |  | 44 | 3 | 143 |
| Percent Heavy Vehicles (\%) |  | 0 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 0 | 0 | 0 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \\| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |

Critical and Follow-up Headways

| Base Critical Headway (sec) | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Critical Headway (sec) | 4.10 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.10 | 6.50 | 6.20 |
| Base Follow-Up Headway (sec) | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) | 2.20 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.50 | 4.00 | 3.30 |

Delay, Queue Length, and Level of Service


## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Total AM | Peak Hour Factor | 0.87 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments



Critical and Follow-up Headways

| Base Critical Headway (sec) | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Critical Headway (sec) | 4.12 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.18 | 6.50 | 6.25 |
| Base Follow-Up Headway (sec) | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) | 2.22 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.57 | 4.00 | 3.35 |

Delay, Queue Length, and Level of Service


## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Total PM | Peak Hour Factor | 0.91 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1 U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  |  | LTR |  |
| Volume (veh/h) |  | 162 | 358 | 2 |  | 1 | 235 | 94 |  | 0 | 0 | 2 |  | 35 | 0 | 67 |
| Percent Heavy Vehicles (\%) |  | 0 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 0 | 0 | 0 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \\| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |

Critical and Follow-up Headways

| Base Critical Headway (sec) | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Critical Headway (sec) | 4.10 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.10 | 6.50 | 6.20 |
| Base Follow-Up Headway (sec) | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) | 2.20 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.50 | 4.00 | 3.30 |

Delay, Queue Length, and Level of Service


## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Total Sat | Peak Hour Factor | 0.94 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 0 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  |  | LTR |  |
| Volume (veh/h) |  | 146 | 181 | 5 |  | 4 | 242 | 54 |  | 2 | 1 | 5 |  | 63 | 3 | 186 |
| Percent Heavy Vehicles (\%) |  | 0 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 0 | 0 | 0 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |

Critical and Follow-up Headways

| Base Critical Headway (sec) | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Critical Headway (sec) | 4.10 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.10 | 6.50 | 6.20 |
| Base Follow-Up Headway (sec) | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) | 2.20 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.50 | 4.00 | 3.30 |

Delay, Queue Length, and Level of Service


## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Total AM w/imp | Peak Hour Factor | 0.87 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1 U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 1 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  | L |  | TR |
| Volume (veh/h) |  | 60 | 104 | 1 |  | 1 | 450 | 34 |  | 0 | 0 | 0 |  | 13 | 0 | 21 |
| Percent Heavy Vehicles (\%) |  | 2 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 8 | 0 | 5 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |

Critical and Follow-up Headways

| Base Critical Headway (sec) | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Critical Headway (sec) | 4.12 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.18 | 6.50 | 6.25 |
| Base Follow-Up Headway (sec) | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) | 2.22 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.57 | 4.00 | 3.35 |

## Delay, Queue Length, and Level of Service



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## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Total PM w/imp | Peak Hour Factor | 0.91 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 1 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  | L |  | TR |
| Volume (veh/h) |  | 162 | 358 | 2 |  | 1 | 235 | 94 |  | 0 | 0 | 2 |  | 35 | 0 | 67 |
| Percent Heavy Vehicles (\%) |  | 0 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 0 | 0 | 0 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |
| Critical and Follow-up Headways |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Base Critical Headway (sec) |  | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| Critical Headway (sec) |  | 4.10 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.10 | 6.50 | 6.20 |
| Base Follow-Up Headway (sec) |  | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) |  | 2.20 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.50 | 4.00 | 3.30 |

Delay, Queue Length, and Level of Service


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## General Information

| Analyst | RH | Intersection | Disney Rd at Park Access |
| :--- | :--- | :--- | :--- |
| Agency/Co. | The Traffic Group, Inc. | Jurisdiction | Anne Arundel County, MD |
| Date Performed | $10 / 31 / 2022$ | East/West Street | Disney Rd |
| Analysis Year | 2022 | North/South Street | Park Access |
| Time Analyzed | Total Sat w/imp | Peak Hour Factor | 0.94 |
| Intersection Orientation | East-West | Analysis Time Period (hrs) | 0.25 |
| Project Description | Anne Arundel County Swim Center |  |  |

Lanes


## Vehicle Volumes and Adjustments

| Approach | Eastbound |  |  |  | Westbound |  |  |  | Northbound |  |  |  | Southbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | U | L | T | R | U | L | T | R | U | L | T | R | U | L | T | R |
| Priority | 1U | 1 | 2 | 3 | 4 U | 4 | 5 | 6 |  | 7 | 8 | 9 |  | 10 | 11 | 12 |
| Number of Lanes | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |  | 0 | 1 | 0 |  | 1 | 1 | 0 |
| Configuration |  | L |  | TR |  | L |  | TR |  |  | LTR |  |  | L |  | TR |
| Volume (veh/h) |  | 146 | 181 | 5 |  | 4 | 242 | 54 |  | 2 | 1 | 5 |  | 63 | 3 | 186 |
| Percent Heavy Vehicles (\%) |  | 0 |  |  |  | 0 |  |  |  | 0 | 0 | 0 |  | 0 | 0 | 0 |
| Proportion Time Blocked |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Percent Grade (\%) |  |  |  |  |  |  |  |  | 0 |  |  |  | 0 |  |  |  |
| Right Turn Channelized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median Type \| Storage | Left + Thru |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |
| Critical and Follow-up Headways |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Base Critical Headway (sec) |  | 4.1 |  |  |  | 4.1 |  |  |  | 7.1 | 6.5 | 6.2 |  | 7.1 | 6.5 | 6.2 |
| Critical Headway (sec) |  | 4.10 |  |  |  | 4.10 |  |  |  | 7.10 | 6.50 | 6.20 |  | 7.10 | 6.50 | 6.20 |
| Base Follow-Up Headway (sec) |  | 2.2 |  |  |  | 2.2 |  |  |  | 3.5 | 4.0 | 3.3 |  | 3.5 | 4.0 | 3.3 |
| Follow-Up Headway (sec) |  | 2.20 |  |  |  | 2.20 |  |  |  | 3.50 | 4.00 | 3.30 |  | 3.50 | 4.00 | 3.30 |

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